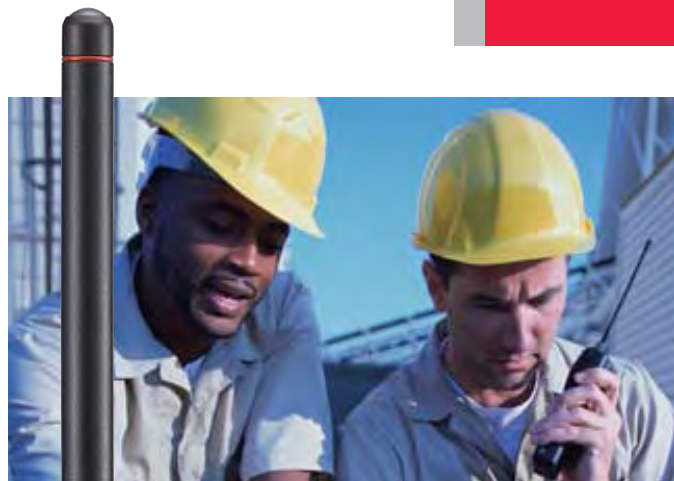




VHF AND UHF TRANSCEIVERS

IC-F3013 (VHF transceiver)

IC-F4013 (UHF transceiver)



MDC 1200
Compatible

Limited functions only.

Rugged
MIL-STD 810

IP54



◀ IC-F3013(VHF)

Simple, Rugged, Reliable at Unbeatable Value!

Simple operation for instant communication

Having only 3 buttons, volume and 16-position channel knob, the IC-F3013 series does not require special training to use. The large knobs and positive action buttons are easy-to-operate, even while wearing gloves.

Modern design, rugged body

The IC-F3013 series is compact (120mm height) and light weight (300g (approx.) with BP-232N and antenna). The aluminum die-cast chassis is the basis for this rugged construction, allowing long-life usage in various environments.

MIL-STD and IP54 rugged construction

The radio is tested to the MIL-STD 810 specification and IP54 rating dust protection and water resistant that can take harsh use and keep working.

2000mAh Lithium-Ion battery pack supplied

The IC-F3013 series comes with a high capacity 2000mAh (typ.) Li-Ion battery pack, BP-232N, as standard. The BP-232N offers up to 16 hours* of operation. (* VHF typical operation with Tx:Rx:Stand-by ratio =5:5:90)

Most popular signalings built-in

Use the built-in 2-Tone, 5-Tone, MDC 1200, CTCSS and DTCS capabilities as standard to set up your own talk groups and quiet stand-by when others are talking.

MDC 1200 PTT ID and Emergency

The IC-F3013 series has a built-in MDC 1200 encoder for transmitting a PTT ID and emergency* signal. Assimilate the IC-F3013 easily into existing MDC 1200 systems. (* No ACK transmission)

Automatic scanning and priority scan

The power on scan function automatically starts scanning when turning on the radio. The priority scan function scans all programmed channels in sequence, while monitoring the priority channel.

Rapid battery charger supplied

The rapid desktop charger, BC-160 and AC adapter BC-145 is supplied with the radio. It charges the BP-232N in 3 hours (approx.).

Other features

- DTMF autodial
- Wide/narrow channel spacing
- Low battery alert with blinking LED and low battery beep
- Wide frequency coverage (136–174, 400–450, 450–512MHz)
- Embedded ESN (Electronic serial number)
- PC programmable
- 3-color LED (Red, Green, Orange)
- Talk around function
- Time out timer
- Optional VOX headset
- 2-step power save

SPECIFICATIONS

GENERAL

- Frequency coverage (MHz) :
IC-F3013 136–174
IC-F4013 400–470, 450–512
- Channel spacing VHF : 15/30kHz
UHF 12.5/25kHz
- Number of channels : 16 channels
- PLL channel step VHF : 2.5kHz, 3.125kHz
UHF 5kHz, 6.25kHz
- Power supply requirement : 7.2V DC
- Current drain (approx.) :
Tx High (VHF) 1.5A
High (UHF) 1.6A
Rx Max. audio 300mA
Standby 70mA
- Antenna impedance : 50Ω
- Operating temperature range :
–30°C to +60°C ; –22°F to +140°F
- Dimensions (W×H×D) : 53×120×38 mm
(proj. not included) ; 2¹/₃×4²/₃×1¹/₂ in
- Weight (with BP-232N) : 300g; 10.6oz

Measurements made in accordance with TIA-603.

All stated specifications are subject to change without notice or obligation.

TRANSMITTER

- Output power (at 7.2V DC) : 5W (VHF), 4W (UHF)
- Max. frequency deviation : ±5.0kHz (at 25kHz)
±2.5kHz (at 12.5kHz)
- Frequency stability : ±2.5ppm
- Spurious emissions : 80dBc typ.
- Adjacent channel VHF : 80/70dB typ. (W/N)
power UHF 75/68dB typ. (W/N)
- FM Hum and noise : 46/40dB typ. (W/N)
- External mic. connector : 3-conductor 2.5 (d) mm
(1/16")/2.2kΩ

RECEIVER

- Sensitivity : 0.25μV typ. (at 12dB SINAD)
- Squelch sensitivity : 0.25μV typ. (at threshold)
- Adjacent channel selectivity : 75/65dB typ. (W/N)
- Spurious response rejection : 70dB min.
- Intermodulation rejection : 74dB typ.
- Hum and noise VHF : 50/45dB typ. (W/N)
UHF 45/40dB typ. (W/N)

- Audio output power : 500mW (typical at 5% distortion with an 8Ω load)
- External speaker connector : 2-conductor 3.5 (d) mm (1/8")/8Ω

Supplied accessories: (* depending on version)

- Battery pack, BP-232N
- Belt clip, MB-94
- Battery charger, BC-160
- AC adapter, BC-145SA/SE*
- Antenna (varies from versions)

Applicable U.S. Military Specifications & IP Rating

Standard	MIL 810 F	
	Method	Procedure
Low Pressure	500.4	I, II
High Temperature	501.4	I, II
Low Temperature	502.4-3	I, II
Temperature Shock	503.4	I
Solar Radiation	505.4	I
Rain	506.4	I, II
Humidity	507.4	–
Salt Fog	509.4	–
Dust	510.4	I
Vibration	514.5	I
Shock	516.5	I, IV

Also meets equivalent MIL-STD-810-C, -D and -E.

Ingress Protection Standard

Dust & Water IP54 (Dust-protection and water resistant)

OPTIONS



Battery packs	Type and capacity	Operating time* (VHF/UHF)
BP-230N	Li-Ion 7.4V 950/980mAh (min./typ.)	7.35 hours
BP-232N	Li-Ion 7.4V 1900/2000mAh (min./typ.)	16/15 hours
BP-240	AAA (LR03) batteries × 6	–

* Tx: Rx: standby=5:5:90. Power save on. (at 20°C)

HEADSETS AND PTT/VOX UNIT



HS-94 : Earhook headset with flexible boom microphone.

HS-95 : Behind-the-head headset with flexible boom microphone.

HS-97 : Throat microphone fits around your neck and picks up speech vibration.

VS-1L : PTT/VOX unit. Required when using these headsets with the radio.

RAPID CHARGER



BC-160 DESKTOP CHARGER + BC-145*1 AC ADAPTER

Charges the BP-232N in 3 hours (approx.).

BC-119N + AD-106 + BC-145*1 is also available.

*1 BC-145/BC-147SA for 120V AC. SE for 230V AC.

REGULAR CHARGER



BC-171 DESKTOP CHARGER + BC-147*1 AC ADAPTER

Charges the BP-232N in 10 hours (approx.).



BC-121N MULTI-CHARGER + AD-106 CHARGER ADAPTER + BC-157 AC ADAPTER

Rapidly charges up to 6 battery packs (Six AD-106s are required). Charging time: 3 hours (approx.) when BP-232N is attached.

SPEAKER-MICROPHONES



HM-153L : Durable earphone-microphone with plug screw connector.

HM-158L : Compact and durable body with plug screw connector.

HM-159L : Full size durable speaker microphone with noise canceller and plug screw connector.

HM-166L : Light weight and compact lapel-microphone with revolving clip.

SP-13 : Earphone is also available.

BELT CLIPS

- MB-93 : Swivel type belt clip.
- MB-94 : Alligator type. Same as supplied.

LEATHER BELT HANGERS

- MB-96N : Swivel type belt hanger.
- MB-96F : Fixed type belt hanger.

POWER SUPPLY CABLES

- CP-23L : Cigarette lighter cable for use with BC-160 or BC-119N.
- OPC-515L : Power supply cable for use with BC-160 or BC-119N.
- OPC-656 : Power supply cable for use with BC-121N.

STUBBY ANTENNAS

- FA-SC56VS : 150–162MHz
- FA-SC57VS : 160–174MHz
- FA-SC73US : 450–490MHz

60–80 mm antennas.

CUT ANTENNAS

- FA-SC61VC : 136–174MHz
- FA-SC61UC : 380–520MHz

Cut the antenna element to tune to a specific center frequency.

ANTENNAS

- FA-SC25V : 136–150MHz
- FA-SC55V : 150–174MHz
- FA-SC25U : 400–430MHz
- FA-SC57U : 430–470MHz
- FA-SC72U : 470–520MHz

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